

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An electric drive system operated with muscle-power (1) for a vehicle (2), said ~~vehicle~~ electric drive system comprising a foot pedal (5) and a generator (6) mechanically connected to the foot pedal, an electric transmission (4) from the generator (6) to a drive motor (11), and an electric control system (20), wherein the electric control system comprises a control program (21) of the generator (6), with which a counter moment (GM) on the generator, related to the forwards pedaling direction (v), is generatable,

C 1 wherein the drive system comprises a starting control (22) of the generator, with which, when the foot pedal is actuated from standstill, an immediately occurring pedal resistance (TW) is generated and with which a high starting moment (MA) is generated at the foot pedal when starting from standstill up to a minimum riding speed.

2. (Previously Presented) The drive system in accordance with claim 1, wherein the standstill pedal resistance (TW) corresponds to an actuation force (F) on the foot pedal (5) of at least 200 N.

3. (Previously Presented) The drive system according to claim 1, wherein the starting moment (MA) at the foot pedal amounts to at least 40 Nm.

4. (Previously Presented) The drive system in accordance with claim 1, wherein the starting control (22) of the generator is controlled such that the starting acceleration of the foot pedal (bmax) on average amounts to a maximum of 4 rad/sec².

5. (Previously Presented) The drive system according to claim 1, wherein a resistance or load moment (M1) of the generator is modulated in phase with a pedal angle (W1).

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6. (Previously Presented) The drive system in accordance with claim 1, wherein a standstill braking (71) of the foot pedal is active, which produces a standstill pedal resistance (TW) and which is also effective in case the electric control system (20) is switched off.

7. (Previously Presented) The drive system according to claim 1, wherein the generator is short-circuited by an electric switch (33) and wherein the electric switch, in case the electric control system (20) is switched off, is closed to generate the pedal resistance (TW).

8. (Previously Presented) The drive system in accordance with claim 7, wherein the high starting moment (MA) is generated by briefly switching on and switching off (choppering) the electric switch (33).

9. (Previously Presented) The drive system according to claim 1, wherein the drive system is used as a drive with a counter moment for a stationary training apparatus (3), comprising an electric consumer and a motor operation control (23) with a bidirectional converter (31) with which the generator (6) is also operatable as a motor, with controllable coupling and uncoupling of electric power.

10. (Previously Presented) The drive system according to claim 1, wherein the generator control program (21) comprises several moment characteristics (M60, M120), which are able to be changed over between, and which increase within, a normal range of the pedaling frequency.

11. (Previously Presented) The drive system according to claim 1, wherein at least one of brakes (45) and mechanical storage devices (46) are assigned to the foot pedal (5) and to the generator (6).

12. (Previously Presented) The drive system in accordance with claim 1, wherein at least one of a blockable free-wheel system (42) and a switchable clutch (43) is provided between the foot pedal and the generator.

13. (Previously Presented) The drive system according to claim 1, wherein the drive system comprises modular units, said modular units being selected from the group consisting of a pedal generator module (8) with foot pedal (5), generator (6), a possible speed transmission (7) and generator control system (20.1), a control module (20) and a drive motor module (18) with motor (11), a possible speed

reduction transmission (12) and a motor control system (20.2).

14. (Previously Presented) The drive system in accordance with claim 1, wherein electric storage devices (14) are provided as short-term storage devices.

15. (Previously Presented) The drive system according to claim 1, further comprising two differently designed motors, (11a, 11b), each respectively for higher and a lower speed range.

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16. (Previously Presented) The drive system according to claim 1, wherein operating data selected from the group consisting of moments, torques, powers, and revolutions per min on the foot pedal are recorded and indicated.

17. (Previously Presented) The drive system according to claim 1, further comprising an interface (35) for connecting external devices.

18. (Previously Presented) The drive system in accordance with claim 1, further comprising a removable data storage device (29), said removable data storage device being operable, when removed, to carry out a closing function of the system.

19. (Previously Presented) The drive system according to claim 1, wherein the electric circuit comprises operating programs (24) for utilization in training apparatuses.

20. (Previously Presented) The drive system in accordance with claim 1, wherein the electric control system (20) after a selectable time interval, during which no traveling motion takes place, goes over into one of an inoperative condition and idle condition.

21. (Previously Presented) The drive system according to claim 1, wherein the foot pedal (5) comprises a changeable geometry.

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Cancel 22. (Previously Presented) A vehicle with a drive system in accordance with claim 1.

23. (Previously Presented) A training apparatus with a drive system according to claim 9.
